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Jun 29, 2004

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DOCUMENT-IDENTIFIER: US 6756219 B1

TITLE: Human secretory type phospholipase a2

DATE-ISSUED: June 29, 2004

## INVENTOR-INFORMATION:

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APPL-NO: 09/ 856486 [\[PALM\]](#)

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PCT/JP99/06844	December 7, 1999	WO00/34486	Jun 15, 2000		

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FIELD-OF-SEARCH: 435/197, 435/440, 536/23.2, 424/94.6

## PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

[Search Selected](#)[Search ALL](#)[Clear](#)

PAT-NO

ISSUE-DATE

PATENTEE-NAME

US-CL

[4215759](#)

August 1980

Diaz

180/168

<input type="checkbox"/> <u>5165064</u>	November 1992	Mattaboni	356/152
<input type="checkbox"/> <u>5682313</u>	October 1997	Edlund et al.	364/999.999

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0 278 853	August 1988	EP	
0 774 702	May 1997	EP	
04-205007	July 1992	JP	
WO 99/59042	November 1999	WO	
WO 00/24911	May 2000	WO	

## OTHER PUBLICATIONS

Kusunoki et al. EMBL database--Accession #X51529. 1992.\*

Emmanuel Valentin et al, "Cloning and Recombinant Expression of a Novel Mouse-secreted Phospholipase A.sub.2 ", The Journal of Biological Chemistry, vol. 274, No. 27, 1999, pp. 19152-19160.

Jeffrey J. Seilhamer et al, "Cloning and Recombinant Expression of Phospholipase A.sub.2 Present in Rheumatoid Arthritic Synovial Fluid", The Journal of Biological Chemistry, vol. 264, No. 10, 1989, pp. 5335-5338.

Ruth M. Kramer et al, "Structure and Properties of a Human Non-pancreatic Phospholipase A.sub.2 ", The Journal of Biological Chemistry, vol. 264, No. 10, 1989, pp. 5768-5775.

Ju Chen et al, "Cloning and Recombinant Expression of a Novel Human Low Molecular Weight Ca.sup.2+ -dependent Phospholipase A.sub.2 ", The Journal of Biological Chemistry, vol. 269, No. 4, 1994, pp. 2365-2368.

Lionel Cupillard et al, "Cloning, Chromosomal Mapping, and Expression of a Novel Human Secretory Phospholipase A.sub.2 ", The Journal of Biological Chemistry, vol. 272, No. 25, 1997, pp. 15745-15752.

Edward A. Dennis, "Diversity of Group Types, Regulation, and Function of Phospholipase A.sub.2 ", The Journal of Biological Chemistry, vol. 269, No. 18, 1994, pp. 13057-13060.

Norihiko Kawamata et al, "Molecular analysis of the secretory phospholipase A2 gene, a candidate of Mom1 gene, in neuroblastomas", Cancer Letters 111 (1997) pp. 71-75.

Osamu Ohara et al, "JIKKEN IGAKU = Experimental Medicine", 1993, pp. 23-27.

Jun Ishizaki et al, "Cloning and Characterization of Novel Mouse and Human Secretory Phospholipase A.sub.2 s", The Journal of Biological Chemistry, vol. 274, No. 35, 1999, pp. 24973-24979.

A. E. Dennis et al, "The growing phospholipase A.sub.2 superfamily of signal transduction enzymes", 1997, pp. 1-2.

ART-UNIT: 1652

PRIMARY-EXAMINER: Achutamurthy; Ponnathapu

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ATTY-AGENT-FIRM: Oblon, Spivak, McClelland, Maier &amp; Neustadt, P.C.

## ABSTRACT:

This invention relates to a gene encoding human secretory type phospholipase

A.sub.2 (PLA.sub.2). According to the invention, an expression vector having this gene, and a transformant having the expression vector are obtainable. The PLA.sub.2 protein can be produced by the culture of the transformant.

16 Claims, 4 Drawing figures

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